

## ABSTRACT

An electrophoresis apparatus that has a gel retaining layer; one or two sample solution storage portions disposed on either side or both sides of said gel retaining layer;

5 two semi-permeable membranes disposed on the outer sides of said sample solution storage portions; buffer solution storage portions disposed on the outer sides of said semi-permeable membranes; a pair of electrodes disposed on the outer sides of said buffer solution storage portions; and at least one liquid inlet/outlet respectively provided in each of the sample solution storage portions and the buffer solution storage portions.